

What is claimed is:

1. A projection type image display device comprising:

an illumination unit;

a light splitting unit which splits illumination light emitted from said lighting means into a plurality of color components;

a plurality of light valves which modulate each of the split light rays of the plural color components;

a synthesizing unit which synthesizes the modulated light rays outputted from said plural light valves; and

a projection unit which projects and displays the resulting synthesized modulated light;

wherein said light valves and said synthesizing unit are fixed to each other through support members formed of a heat-melting polymer material.

2. A projection type image display device according to claim 1, wherein said support members and said light valves are fixed to each other by heat-fusion of said polymer material.

3. A projection type image display device comprising:

an illumination unit;

a light splitting unit which splits illumination

light emitted from said lighting unit into a plurality of color components;

a plurality of light valves which modulates each of the split light rays of the plural color components;

a synthesizing unit which synthesizes the modulated light rays outputted from said plural light valves;

a projection unit which projects and displays the resulting synthesized modulated light; and

support members which fixes said light valves and said synthesizing unit to each other;

wherein mounting support portions of said support members which mounts and supports said light valves are formed of a heat-melting polymer material.

4. A projection type image display device according to claim 3, wherein said support members and said light valves are fixed to each other by heat-fusion of said polymer material of said mounting support portions.

5. A projection type image display device according to claim 4, wherein said support members are formed by integral injection molding of a polymer material fixedly to said synthesizing unit.

6. A projection type image display device according to claim 4, wherein each of said light valves is fused to corresponding said support member by using at least two surfaces thereof comprising a tapered portion and a

straight portion.

7. A projection type image display device according to claim 4, wherein, after said light valves are fixed to said support members, the positions of said light valves are adjusted at the time of fixing said support members and said synthesizing unit to each other.

8. A projection type image display device according to claim 5, wherein said light valves are fixed by fusion to said support members after adjusting the positions of said light valves.

9. A projection type image display device comprising:

an illumination unit;

a light splitting unit which splits illumination light emitted from said lighting unit into a plurality of color components;

a plurality of light valve unit which modulates each of the split light rays of the plural color components;

a synthesizing unit which synthesizes the modulated light rays outputted from said plural light valves;

a projection unit which projects and displays the resulting synthesized modulated light; and

support members which fixes said light valves and said synthesizing unit to each other;

wherein a melting point or a glass transition point

of the material of a profile portion of each said light valves and that of the material of a mounting portion of each said support unit which mounts to each said light valves are different 40 degrees or more from each other.

10. A projection type image display device according to claim 9, wherein said support members each have a groove for fixing a polarizing plate.

11. A projection type image display device according to claim 2, wherein said support members are formed by integral injection molding of a polymer material fixedly to said synthesizing unit.

12. A projection type image display device according to claim 2, wherein each of said light valves is fused to corresponding said support member by using at least two surfaces thereof comprising a tapered portion and a straight portion.

13. A projection type image display device according to claim 2, wherein, after said light valves are fixed to said support members, the positions of said light valves are adjusted at the time of fixing said support members and said synthesizing unit to each other.

14. A projection type image display device according to claim 3, wherein said support members are formed by integral injection molding of a polymer material fixedly to said synthesizing unit.

15. A projection type image display device according to claim 3, wherein each of said light valves is fused to corresponding said support member by using at least two surfaces comprising a tapered portion and a straight portion.

16. A projection type image display device according to claim 3, wherein, after said light valves are fixed to said support members, the positions of said light valves are adjusted at the time of fixing said support members and said synthesizing unit to each other.

17. A projection type image display device according to claim 1, where said support members are formed by integral injection molding of a polymer material fixedly to said synthesizing unit.

18. A projection type image display device according to claim 1, wherein, after said light valves are fixed to said support members, the positions of said light valves are adjusted at the time of fixing said support members and said synthesizing unit to each other.

19. A projection type image display device according to claim 1, wherein said support members each have a groove for fixing a polarizing plate.

20. A projection type image display device according to claim 3, wherein said support members each have a groove for fixing a polarizing plate.